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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,541	10/24/2003	Donald R. Moody	018300-001521	2310
24239	7590	07/06/2006	EXAMINER	
MOORE & VAN ALLEN PLLC P.O. BOX 13706 Research Triangle Park, NC 27709			LAUX, JESSICA L	
			ART UNIT	PAPER NUMBER
			3635	
DATE MAILED: 07/06/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/693,541

Applicant(s)

MOODY ET AL.

Examiner

Jessica Laux

Art Unit

3635

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 October 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) 23-32 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 and 33 is/are rejected.
- 7) ☒ Claim(s) 4, 9 and 14 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 October 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 05/06/2004

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention:

Species 1: Figures 1 and 3

Species 2: Figures 4 and 6.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

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showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

During a telephone conversation with Michael Johnston on January 12, 2006 a provisional election was made without traverse to prosecute the invention of species 1, claims 1-22, and 33. Affirmation of this election must be made by applicant in replying to this Office action. Claims 23-32 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Objections

Claims 4, 9, and 14 objected to because of the following informalities: "less than about 1.2 mm" is indefinite. Appropriate correction is required.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the insulating material

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disposed between the first bottom chord member and the second bottom chord member at the point of connection of the at least one web member to the first bottom chord member must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5, 17-21, and 33 are rejected under 35 U.S.C. 102(b) as being anticipated by Macomber (2457056).

In regards to claim 1: A metal truss, comprising: a pair of elongated top chord members (12 & 13) each having a first end and a second end, the top chord members connected to each other at the first end; a first elongated bottom chord member (10), the ends of the first bottom chord member connected to the top chord members adjacent the second ends of the top chord members (Figure 1); a second elongated bottom chord member (11), the ends of the second bottom chord member connected to the top chord members adjacent the second ends of the top chord members such that the second bottom chord member is spaced from the first bottom chord member (Figure 1); and at least one web member (14) positioned between and interconnecting at least one top chord member and the first bottom chord member, one end of the web member connected to the at least one top chord member and the other end of the web member connected to the first bottom chord member.

In regards to claim 2: A metal truss as recited in claim 1, wherein the ends of the second bottom chord member connect with the second ends of the top chord members at a point spaced from the second ends of the top chord members (Figure 3).

In regards to claim 3: A metal truss as recited in claim 1, wherein the connected top chord members form an apex of an angular shape (Figure 1), and with the second bottom chord member, form a triangle (Figure 1).

In regards to claim 5: A metal truss as recited in claim 1, further comprising at least one tensile element (19) connected between the first bottom chord member and the second bottom chord member, wherein the point of connection of the tensile element to the first bottom chord member is spaced from the point of connection of the at least one web member to the first bottom chord member (Figure 6).

In regards to claim 17: A metal truss, comprising: a plurality of elongated top chord members (12 & 13), the top chord members connected to each other end to end so that the connected top chord members have two free ends; a first elongated bottom chord member (10), the ends of the first bottom chord member connected to the top chord members adjacent the free ends of the connected top chord members; a second elongated bottom chord member (11), the ends of the second bottom chord member connected to the top chord members adjacent the free ends of the connected top chord members such that the second bottom chord member is spaced from the first bottom chord member (Figure 3); and at least one web member (14) positioned between and interconnecting at least one top chord member and the first bottom chord member, one end of the web member connected to the at least one top chord member and the other end of the web member connected to the first bottom chord member.

In regards to claim 18: A metal truss, comprising: a pair of elongated top chord members (12 & 13) each having a first end and a second end, the top chord members connected to each other at the first end; a first elongated bottom chord member (10); means for connecting (15) the first bottom chord member to the top chord members adjacent the second ends of the top chord members; a second elongated bottom chord

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member (11); means for connecting (17) the second bottom chord member to the first bottom chord member such that the second bottom chord member is spaced from the first bottom chord member; and at least one web member (14) positioned between and interconnecting at least one top chord member and the first bottom chord member, one end of the web member connected to the at least one top chord member and the other end of the web member connected to the first bottom chord member.

In regards to claim 19: A metal truss as recited in claim 18, wherein the first bottom chord member connecting means includes fasteners (15) for connecting the ends of the first bottom chord member directly to the top chord members.

In regards to claim 20: A metal truss as recited in claim 18, wherein the first bottom chord member connecting means includes a heel truss member (15) vertically fastened between each end of the first bottom chord member and the top chord members.

In regards to claim 21: A metal truss as recited in claim 18, wherein the second bottom chord member connecting means includes at least one tensile element (19) connected between the first bottom chord member and the second bottom chord member, wherein the point of connection of the tensile element to the first bottom chord member is spaced from the point of connection of the at least one web member to the first bottom chord member (Figure 6).

In regards to claim 33: A metal truss, comprising: a plurality of elongated top chord members (12 & 13), the top chord members connected to each other end to end so that the connected top chord members have two free ends; a first elongated bottom

chord member (10); means for connecting the first bottom chord member to the top chord members adjacent the second ends of the top chord members (15), a second elongated bottom chord member (11); means for connecting the second bottom chord member to the first bottom chord member such that the second bottom chord member is spaced from the first bottom chord member (17), and at least one web member (14) positioned between and interconnecting at least one top chord member and the first bottom chord member, one end of the web member connected to the at least one top chord member and the other end of the web member connected to the first bottom chord member.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 7-10 and 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Macomber (2457056) in view of Ruppel (2201504).

In regards to claim 7: Macomber teaches a metal truss comprising a pair of elongated top chord members (12 & 13) each having a first end and a second end, the top chord members connected to each other at the first end; a first elongated bottom chord member (10), the ends of the first bottom chord member connected to the top chord members adjacent the second ends of the top chord members; a second

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elongated bottom chord member (11), the ends of the second bottom chord member connected to the top chord members adjacent the second ends of the top chord members such that the second bottom chord member is spaced from the first bottom chord member (Figure 3); and at least one web member (14) positioned between and interconnecting at least one top chord member and the first bottom chord member, one end of the web member connected to the at least one top chord member and the other end of the web member connected to the first bottom chord member, but does not teach a plurality of trusses and wall frames wherein the trusses are adapted to be erected upon a building system frame such that the second bottom chord member spans at least two wall frames and is connected to the top ends of the respective wall frames. Ruppel teaches a plurality of wall frames (14), each of the wall frames having a top end; a plurality of metal trusses, each of the trusses wherein the plurality of trusses are erected upon the frame such that the second bottom chord member spans at least two of the wall frames and is connected to the top ends of the respective wall frames (Figure 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the truss as taught by Macomber have a plurality of the trusses be erected on wall frames as taught by Ruppel, as this is common in the art as a way to put a roof structure over a space enclosed by walls.

In regards to claim 8: A metal truss as recited in claim 7 above, wherein the ends of the second bottom chord member connect with the second ends of the top chord members at a point spaced from the second ends of the top chord members (Macomber Figure 3).

In regards to claim 10: A building system as recited in claim 7, further comprising at least one tensile element (Macomber 19) connected between the first bottom chord member and the second bottom chord member, wherein the point of connection of the tensile element to the first bottom chord member is spaced from the point of connection of the at least one web member to the first bottom chord member (Macomber Figure 6).

In regards to claim 12: Macomber teaches a metal truss comprising a pair of elongated top chord members (12 & 13) each having a first end and a second end, the top chord members connected to each other at the first end, a first elongated bottom chord member (10), the ends of the first bottom chord member connected to the top chord members adjacent the second ends of the top chord members, a second elongated bottom chord member (11), the ends of the second bottom chord member connected to the top chord members adjacent the second ends of the top chord members such that the second bottom chord member is spaced from the first bottom chord member (Figure 3), and at least one web member (14) positioned between and interconnecting at least one top chord member and the first bottom chord member, one end of the web member connected to the at least one top chord member and the other end of the web member connected to the first bottom chord member, but does not teach a plurality of wall frames wherein the trusses are erected upon the wall frames and roofing material fastened to the top chord members. Ruppel teaches a plurality of wall frames (14), each of the wall frames having a top end; a plurality of metal trusses, each of the trusses wherein the plurality of trusses are erected upon the frame such that the second bottom chord member spans at least two of the wall frames and is connected to

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the top ends of the respective wall frames (Figure 3); and roof material fastened to the top chord members (Figure 4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the truss as taught by Macomber to be erected on wall frames and to have roofing material fastened to the top chord members, as taught by Ruppel, as this would provide an enclosed roof system over a room to protect the interior of the walls from damage due to rain.

In regards to claim 13: A metal truss as recited in claim 12, wherein the ends of the second bottom chord member connect with the second ends of the top chord members at a point spaced from the second ends of the top chord members (Macomber Figure 3).

In regards to claim 14: Macomber discloses a truss made of metal as in the claim 12 above. Macomber does not address the thickness of the metal comprising the truss. Applicant has not disclosed that having the metal be a specific thickness provides an advantage, solves any stated problem or is for any particular purpose. Moreover, it appears that the truss of Macomber, or applicant's invention, would perform equally well with any thickness. Accordingly, it would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to have modified Macomber such that the thickness of the metal comprising the top and bottom chord members and the at least one web member to be less than about 1.2 mm because such a modification would have been considered a mere design consideration which fails to patentably distinguish over Macomber.

In regards to claim 15: A building as recited in claim 12, further comprising at least one tensile element (Macomber 14) connected between the first bottom chord member and the second bottom chord member, wherein the point of connection of the tensile element to the first bottom chord member is spaced from the point of connection of the at least one web member to the first bottom chord member (Macomber Figure 6).

Claims 4, and 9, are rejected under 35 U.S.C. 103(a) as being unpatentable over Macomber (2457056).

In regards to claims 4, and 9: Macomber discloses a truss made of metal as in the claims 1 and 7 above. Macomber does not address the thickness of the metal comprising the truss. Applicant has not disclosed that having the metal be a specific thickness provides an advantage, solves any stated problem or is for any particular purpose. Moreover, it appears that the truss of Macomber, or applicant's invention, would perform equally well with any thickness. Accordingly, it would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to have modified Macomber such that the thickness of the metal comprising the top and bottom chord members and the at least one web member to be less than about 1.2 mm because such a modification would have been considered a mere design consideration which fails to patentably distinguish over Macomber.

Claims 6, 11, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Macomber (2201504) in view of Bertrand (4279112).

In regards to claims 6, 11, and 22: Macomber discloses a metal truss as in the claims above. Macomber does not disclose insulating material disposed between the

first bottom chord member and the second bottom chord member at the point of connection of the at least one web member to the first bottom chord member. Bertrand discloses a method for improving thermic insulation of a building with a metal frame structure that includes using insulation to cover every metal framing member (Col. 4, lines 27-33 so that no exposed metal is present to act as a direct heat conductor (Col. 4, lines 48-52). Therefore, it would have been obvious at the time the invention was made to modify Macomber have insulation at the chord members because the insulation would prevent loss of heat because of the metal to metal contact at the connection of the chord members of the metal frame.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Macomber (2457056) in view of Ruppel (2201504) as applied to claim 12 above, and further in view of Bertrand (4279112).

In regards to claim 16: Macomber in view of Ruppel discloses a metal truss as in claim 12 above. Macomber in view of Ruppel does not disclose insulating material disposed between the first bottom chord member and the second bottom chord member at the point of connection of the at least one web member to the first bottom chord member. Bertrand discloses a method for improving thermic insulation of a building with a metal frame structure that includes using insulation to cover every metal framing member (Col. 4, lines 27-33 so that no exposed metal is present to act as a direct heat conductor (Col. 4, lines 48-52). Therefore, it would have been obvious at the time the invention was made to modify Macomber to have insulation at the chord members

because the insulation would prevent loss of heat because of the metal to metal contact at the connection of the chord members of the metal frame.

Conclusion

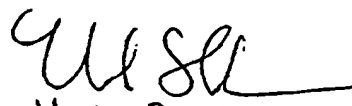
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessica Laux whose telephone number is 571-272-8228. The examiner can normally be reached on Monday thru Friday, 8:30am to 4:00pm (est).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Friedman can be reached on 571-272-6842. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JL
01/18/2006


Naoko Slack
Primary Examiner

Notice of References Cited	Application/Control No. 10/693,541	Applicant(s)/Patent Under Reexamination MOODY ET AL.	
	Examiner Jessica Laux	Art Unit 3835	Page 1 of 2

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,542,227	08-1996	Frayne, Clifford G.	52/639
*	B	US-2004/0211146	10-2004	Weeks, Kevin William	052/633
*	C	US-6,349,518	02-2002	Chacko, Jacob T.	52/404.1
*	D	US-3,160,987	12-1964	PINKLEY HERBERT B	52/95
*	E	US-2005/0279039	12-2005	Konopka, Peter J.	052/407.1
*	F	US-2004/0000113	01-2004	Alderman, Robert J.	52/407.5
*	G	US-5,337,533	08-1994	Kajita, Yusuke	52/741.1
*	H	US-6,843,718	01-2005	Schmitz, Johannes	454/186
*	I	US-6,976,337	12-2005	Hiraki, Koji	52/79.1
*	J	US-4,329,827	05-1982	Thorn, Ake	52/790.1
*	K	US-1,367,289	02-1921	WALLER JAMES H DE W	52/639
*	L	US-2,166,943	07-1939	DAVISON ROBERT L	52/519
*	M	US-2,262,120	11-1941	SMITS HOWARD G	52/639

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited	Application/Control No. 10/693,541	Applicant(s)/Patent Under Reexamination MOODY ET AL.	
	Examiner. Jessica Laux	Art Unit 3635	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2,385,142	09-1945	LANK EVERETT S	52/639
	B	US-			
*	C	US-3,227,062	01-1966	EVALD ANDERSSON KARL ERIK	454/253
*	D	US-3,429,091	02-1969	DUNDR JOSEF	52/639
*	E	US-3,785,108	01-1974	Satchell, Eric William	52/645
*	F	US-4,414,787	11-1983	Kappen, Burkhard	52/643
*	G	US-4,669,243	06-1987	Gore et al.	52/696
*	H	US-4,748,784	06-1988	Dividoff et al.	52/639
*	I	US-5,454,201	10-1995	Slonim, Jeffrey M.	52/639
	J	US-			
	K	US-			
	L	US-			
	M	US-			

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	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1448A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/693,541
		Filing Date	October 24, 2003
		First Named Inventor	Donald R. Moody
		Art Unit	
		Examiner Name	
Sheet 1 of 7	Attorney Docket Number	018300-001521	

U.S. PATENT DOCUMENTS							
Examiner Initials ¹	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (if known)					
JL	A	US-	1,311,488		07-29-1910	Benedict	
	B	US-	1,824,880		08-29-1933	Ragsdale	
	C	US-	1,963,184		08-19-1934	Webster	
	D	US-	2,067,403		01-12-1937	Lea	
	E	US-	2,210,828		08-06-1940	Connors, Jr.	
	F	US-	2,541,784		02-13-1951	Shannon	
	G	US-	2,830,890		03-10-1953	Macomber	
	H	US-	3,541,748		11-24-1970	Troutner	
	I	US-	3,858,270		04-18-1972	Phillips	
	J	US-	4,159,804		07-03-1979	Burrell	
	K	US-	4,435,940		03-13-1984	Davenport et al.	
	L	US-	4,816,453		10-14-1986	Sheppard, Jr. et al.	
	M	US-	4,982,543		01-08-1991	Stromback	
	N	US-	5,577,353		11-26-1996	Simpson	
	O	US-	5,648,403		07-22-1997	Halsch	
	P	US-	5,983,589		11-16-1999	Daudet	
	Q	US-	6,253,521		07-03-2001	Gavin et al.	
	R	US-	6,272,447		08-07-2001	Gavin et al.	

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Examiner Initials ¹	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)					
JL	S	PCT/AU88/00188		08-14-1988	Jen Corp Nominees Limited		
JL	T	GB 1 257 031		12-13-1971	Hunter		
JL	U	CA 476,296		08-21-1951	Shannon		
JL	V	PCT/AU98/00251		03-01-1998	Schmauser et al.		

Examiner Signature	Jessica Rus	Date Considered	01/17/06
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known			
		Application Number	10/693,541		
		Filing Date	October 24, 2003		
		First Named Inventor	Donald R. Moody		
		Art Unit			
		Examiner Name			
Sheet	2	of	7	Attorney Docket Number	018300-001521

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ²	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ³ (if known)				
JL	W	US- 2,842,825		08-23-1953	McElhone et al.	
	X	US- 3,682,853		05-13-1975	Olman	
	Y	US- 3,981,455		06-08-1978	Peters	
	Z	US- 4,285,312		10-20-1981	Campbell	
	AA	US- 4,389,829		08-28-1983	Murphy	
	AB	US- 4,483,118		11-20-1984	Betschart	
	AC	US- 4,530,181		07-23-1985	Bolsbluche	
	AD	US- 4,815,157		10-07-1988	Murray	
	AE	US- 4,689,243		06-02-1987	Gore et al.	
	AF	US- 4,720,858		01-26-1988	Wicklund	
	AG	US- 4,827,888		05-09-1989	Tene	
	AH	US- 4,883,189		09-05-1989	Lindsay	
	AI	US- 4,907,380		03-13-1990	Tene	
	AJ	US- 6,078,174		06-27-2000	Williams et al.	
	AK	US- 6,237,297		05-29-2001	Parchy	
	AL	US- 2002/0005022		01-17-2002	Matthews	
JL	AM	US- 6,354,058		03-12-2002	Korzen	
	AN	US- 2002/0073889		07-20-2002	Khattab et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ²	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature	Jessica Guss	Date Considered	01/17/06
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		Application Number	10/693,541
		Filing Date	October 24, 2003
		First Named Inventor	Donald R. Moody
		Art Unit	
		Examiner Name	
Sheet 3 of 7	Attorney Docket Number	018300-001521	

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ¹ (if known)				
JL	AO	US- 1,747,313		02-18-1930	Miss	
	AP	US- 2,234,980		03-18-1941	Buelow	
	AQ	US- 2,824,430		01-06-1953	Macomber	
	AR	US- 2,687,102		08-24-1954	Rongved et al.	
	AS	US- 3,028,914		04-17-1962	Macomber	
	AT	US- 3,563,121		08-08-1971	Tate et al.	
	AU	US- 3,851,812		03-28-1972	Schmitt	
	AV	US- 3,888,828		06-13-1972	Nicholas et al.	
	AW	US- 3,888,819		08-29-1972	Atkinson	
	AX	US- 4,074,487		02-21-1978	Dante et al.	
	AY	US- 4,141,181		02-27-1979	Aarons	
	AZ	US- 4,943,038		07-24-1990	Harnden	
	BA	US- 5,553,375		09-10-1996	Powers	
	BB	US- 5,873,567		02-23-1999	Williams	
	BC	US- 2001/0044707		11-22-2001	Gavin et al.	
	BD	US- 2002/0059774		05-23-2002	Collins	
	BE	US- 2002/0078655		06-27-2002	Montanaro et al.	
	BF	US- 6,560,858		05-13-2003	McAdoo	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^o
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature	Jessica Hye	Date Considered	01/17/06
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Substitute for form 1449A/PTO <h3 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h3> <p style="text-align: center;">(use as many sheets as necessary)</p>		<h4 style="text-align: center;">Complete If Known</h4> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/693,541</td> </tr> <tr> <td>Filing Date</td> <td>October 24, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Donald R. Moody</td> </tr> <tr> <td>Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>018300-001521</td> </tr> </table>		Application Number	10/693,541	Filing Date	October 24, 2003	First Named Inventor	Donald R. Moody	Art Unit		Examiner Name		Attorney Docket Number	018300-001521
Application Number	10/693,541														
Filing Date	October 24, 2003														
First Named Inventor	Donald R. Moody														
Art Unit															
Examiner Name															
Attorney Docket Number	018300-001521														
Sheet	4	of	7												

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
H	BG	US-	1,925,789	09-05-1933	McAvey et al.	
	BH	US-	2,329,041	09-07-1943	Ford	
I	BI	US-	4,858,398	08-22-1989	Ricchini	
	BJ	US-	6,529,828	06-18-1998	Knudson	
J	BK	US-	5,651,230	07-29-1997	Knudson	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ⁴ -Number ⁵ -Kind Code ⁶ (if known)				

Examiner Signature <u>Jessica Kiss</u>	Date Considered <u>01/17/06</u>
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Substitute for form 1448B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	10/693,541	
			Filing Date	October 24, 2003	
			First Named Inventor	Donald R. Woody	
			Art Unit		
			Examiner Name		
Sheet	5	of	7	Attorney Docket Number	018300-001521

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
JL	BL	"Residential Steel Framing -- In-Depth Analysis", ToolBase Services -- The Home Building Industry's Technical Information Resource, Pages 1-7, http://www.toolbase.org/tertiaryT.asp?DocumentID=2163&CategoryID=1142		
	BM	DON ALLEN, "Residential Steel Framing Becomes Easier, Faster and Cheaper To Use", Pages 1 - 2, http://www.fhba.com/homebuilder/marchapril100/steelframing.htm		
	BN	TIMOTHY J. WAITE, P.E., "What's Ahead for Steel Frame Construction", Walls & Ceilings, 09/09/2002, Pages 1 - 4, http://www.wconline.com/wc/cda/articleinformation/features/bnp_features_item/0,3299,83...		
	BO	DON ALLEN, "The Puzzle of Steel", Walls & Ceilings, 10/18/2000, Pages 1 - 4, http://www.wconline.com/wc/cda/articleinformation/features/bnp_features_item/0,3299,12899,00.html		
	BP	"Up Front Thermal Improvements", Walls & Ceilings, 09/10/2002, Pages 1 - 2, http://www.wconline.com/wc/cda/articleinformation/features/bnp_features_item/0,329983...		
	BQ	"Gus Truss", Page 1 - 3, http://www.premiumsteel.com/Products/GussTruss/page1.htm		
	BR	"The Gus Truss", Clark Engineering, page 1, http://www.clarksteel.com/cd_catalog.htm		
	BS	"The Right STUF: Universal Designator System for Light Gauge Steel Framing Members", www.steel framingalliance.com/codes/rightstuf.pdf		
	BT	"I-Beams Made by Connecting Two Channels", pp. 371 - 377.		
JL	BU	"Inelastic Reserve Capacity of Beams", pp. 217 - 229.		

Examiner Signature	Jessica Lupo	Date Considered	01/17/06
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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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		Application Number	10/693,541
		Filing Date	October 24, 2003
		First Named Inventor	Donald R. Moody
		Art Unit	
Examiner Name			
Attorney Docket Number	018300-001621		
Sheet	6	of	7

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
se	BV	"Design of Beam Webs", pp. 145 - 166.	
	BW	"AISI Design Formulas For Flexural Buckling", pp. 235 - 243.	
	BX	JOHN WYATT, "Steel Rail Blues", Walls & Ceilings, 09/09/2002, Page 1-4, http://www.wconline.com/wc/cda/articleinformation/coverstory/bnpcoverstoryitem/0,3296,8...	
	BY	The TrusSteel Story, Page 1 - 3, http://www.trussteel.com/TrsSteel.NSF/8525601a0077f5dc85255d7c00545af7/38147e250aa7e6f68625696e...	
	BZ	"SBA Changes to MBCEA", Modern Trade Communications, 09/20/2002, Page 1 - 6, http://www.moderntrade.com/editnews8-02.htm	
	CA	"GUS TRUSSu", Page 1 - 2, http://www.wmfinc.com/bond_GusTruss.htm	
	CB	WEI-WEN YU, Ph.D., Cold-Formed Steel Design, 1985, pp. 1-6, 115 - 128, A Wiley-Interscience Publication, USA	
	CD	WEI-WEN YU, Design of Light Gauge Cold-Formed Steel Structures, 1965, pp 1-3, 23 - 26, 34 -37, Engineering Experiment Station, US	
	CE	"Specification For The Design of Cold-Formed Steel Structural Members, Cold-Formed Steel Design Manual - Part I", American Iron And Steel Institute, 09/03/1990, pp. 11 - 30,	
	CF	"Specification For The Design of Cold-Formed Steel Structural Members, Cold-Formed Steel Design Manual - Part IV", American Iron And Steel Institute, 09/03/1990, pp. 20 - 24, 39 - 40, 49 - 55, 81 - 85.	
se	CG	"Light Gage Cold-Formed Steel Design Manual", American Iron and Steel Institute, 1962 Edition, pp. 38 - 57, 81 - 83, 96 - 97, 104 - 105, 112 - 113.	

Examiner Signature	<i>Jessica Y...</i>	Date Considered	01/17/06
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/693,541
		Filing Date	October 24, 2003
		First Named Inventor	Donald R. Moody
		Art Unit	
		Examiner Name	
Sheet	7	of	7
		Attorney Docket Number	018300-001521

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	7 ²
de	CH	R.M. SCHUSTER, Cold Formed Steel Design Manual, 1975, pp 57 - 73, 103 - 104, 127 - 128, 248 - 250, 258 - 259, 287 - 293, University of Waterloo Press	
	CI	STANLEY W. CRAWLEY, M.A.R.C.H., and ROBERT M. DILLON, M.A.R.C.H., Steel Buildings Analysis and Design, Second Edition, 1977, pp. v - viii, ix - x, 1-48, John Wiley & Sons, US	
	CJ	Encyclopedia of Trusses, A Guide to Using Trusses, 1998, pp. 1 - 48.	
de	CK	Design Guide For Cold-Formed Steel Trusses, December 1995, Page 1 - 18, American Iron and Steel Institute	CF

Examiner Signature	Jessica Lynn	Date Considered	01/17/06
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